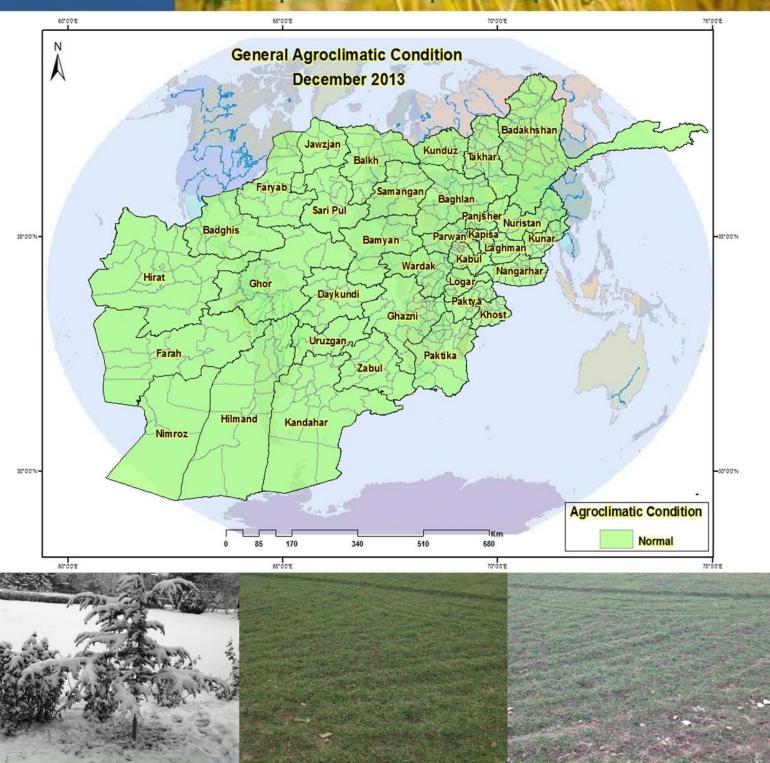


Issue No: 106 December: 2013

The fghanistan grometeorological M onthly Bulletin

Copies Crop Information Precipitation Temperature NDVI



Crop Condition



Snow

Crop Stage

BULLETIN CONTENTS

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The Afghanistan's Agromet Monthly Bulletin is being Published on monthly Bases English Dari and in Languages.

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Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), Agromet Project and United States Geological Survey (USGS).

Summary

Comparison of Monthly rainfall data for the Comparison of snow extent for the month of month of December 2013, in contrast to the same December 2013, with the same month of long month of December 2012, show significant decrease of rainfall in most of the areas aside from some areas of Northern region during the month extent during the month of December 2013, over of December 2013, compare to the same month of the same month of long term average. last year.

Crop Stage, Crop Condition and Adverse Factor

		District	Station -	Wheat				
Zone	Province			Crop Stage	Crop Condition	Adverse Factor		
		Shakardara	Karizmir	Emergence	Normal	Not Existed		
		Paghman	Paghman	Emergence	Normal	Not Existed		
	Kabul	Kabul	Darulaman	Dormancy				
		Surubi	Surubi	Emergence	Normal	Not Existed		
	Danishan	Dara	Dara	Dormancy				
	Panjsher	Dashtak	Dashtak					
	Damman	Syagerd	Gorband	Emergence	Normal	Not Existed		
	Parwan	Charikar	Charikar	Emergence	Normal	Not Existed		
	17.	Mahmoodraqi	Mahmoodraqi		Dormancy			
	Kapisa	Kohistan	Kohistan	Planting	Normal	Not Existed		
Central		Maidan shehr	Maidan shehr	Dormancy				
	Wardak	Sayed Abad	Sayed Abad	Emergence	Normal	Not Existed		
	Logar	Pole Alam	Pole Alam	Dormancy				
		Bamyan	Bamyan	Emergence	Normal	Not Existed		
		Yakawlang	Yakawlang	Vegetative	Normal	Not Existed		
	Bamyan	Panjab	Panjab	Dormancy				
		Shebar	Shebar	Emergence	Normal	Not Existed		
		Kohmard	Kohmard					
	Ghazni	Andar	Bande Sardi	Dormancy				
	Ghazin	Muqar	Muqar					
	Dikondy	Dasht	Nili					
		Khideer	Khideer					
		Agam	Agam	Vegetative	Normal	Not Existed		
East	Nangarhar	Batikot	Ghaziabad	Vegetative	Normal	Not Existed		
		Jalalabad	Farm jaded	Vegetative	Normal	Not Existed		

Data Source: Agromet Network

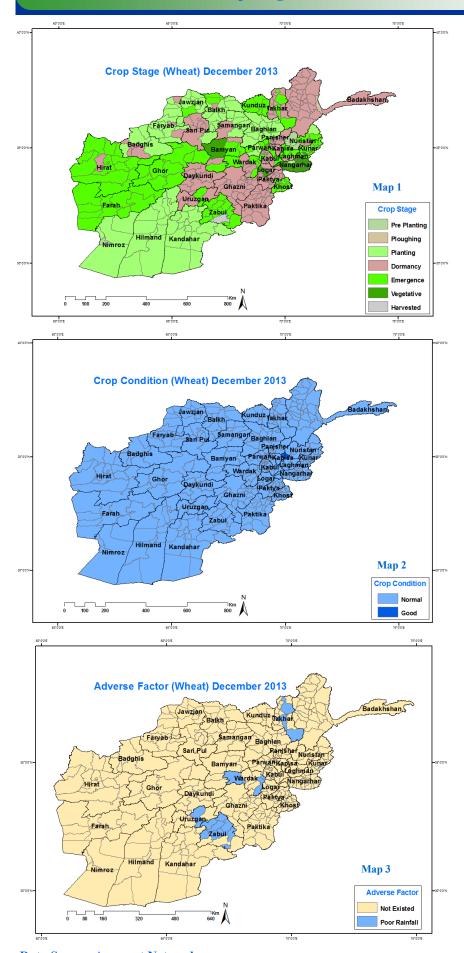
Crop Stage, Crop Condition and Adverse Factor

7	Province	District	Station -	Wheat			
Zone				Crop Stage	Crop Condition	Adverse Factor	
		Asmar	Asmar	Emergence	Normal	Not Existed	
	Kunar	Asad Abad	Asad Abad	Emergence	Normal	Not Existed	
		Chawkay	Chawkay	Vegetative	Normal	Not Existed	
		Mihtarlam	Mihtarlam	Emergence	Normal	Not Existed	
	Laghman	Qarghay	Qarghay	Emergence	Normal	Not Existed	
East		Alengar	Alengar	Emergence	Normal	Not Existed	
		Paroon	Paroon	Pre-Planting	Normal	Not Existed	
		Do Ab	Do Ab	Pre-Planting	Normal	Not Existed	
	Noristan	Norgaram	Norgaram	Emergence	Normal	Not Existed	
		Waigal	Waigal	Emergence	Normal	Not Existed	
		Wama	Wama	Pre-Planting	Normal	Not Existed	
		Taluqan	Taluqan				
	Takhar	Rostaq	Rostaq	Dormancy			
		Aqmasjad	Aqmasjad				
	Kunduz	Imam Sahib	Imam Sahib	Planting	Normal	Not Existed	
		Qaliazal	Aqtipa	Emergence	Normal	Not Existed	
		Khan Abad	Khan Abad	Emergence	Normal	Not Existed	
		Kunduz	Kunduz	Emergence	Normal	Not Existed	
		Archi	Archi	Emergence	Normal	Not Existed	
North East		Chardara	Chardara	Emergence	Normal	Not Existed	
		Ali Abad	Ali Abad	Planting	Normal	Not Existed	
	Baghlan	Pulikhomri	Pozaishan	Planting	Normal	Not Existed	
		Doshy	Doshy	Planting	Normal	Not Existed	
		Argo	Argo	Dormancy			
		Baharak	Baharak				
	Badakhshan	Ashkashm	Ashkashm	Ploughing	Normal	Not Existed	
		Khash	Khash	Dormancy			
		Faiz Abad	Faiz Abad				
	Khost Paktia	Khost	Khost	Emergence	Normal	Not Existed	
		Khost	Shimal	Emergence	Normal	Not Existed	
		Ali Sher	Ali Sher	Emergence	Normal	Not Existed	
		Zormat	Rohani Baba		1	1	
South East		Gardiz	Tera				
		Urgon	Urgon	Dormancy			
	Dalztilza	Sharana	Sharana				
	Paktika						
		Khair kot	Khair Kot				

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat				
				Crop Stage	Crop Condition	Adverse Factor		
	Nimroz	Zaranj	Zaranj	Planting	Normal	Not Existed		
	Vandahan	Kandahar	Kandahar	Planting	Normal	Not Existed		
	Kandahar	Kohkaran	Kohkaran	Planting	Normal	Not Existed		
	Zabul	Qalat	Qalat	Emergence	Normal	Poor Rainfall		
South	Urozgan	Tirin Kot	Tirin Kot	Emergence	Normal	Poor Rainfall		
South		Nad Ali	Nad Ali	Planting	Normal	Not Existed		
	Hilmand	Greshk	Greshk	Planting	Normal	Not Existed		
	IIIIIIaiiu	Nawa	Nawa	Planting	Normal	Not Existed		
		Lashkargah	Bolan	Planting	Normal	Not Existed		
		Takhta pol	Dihdadi	Planting	Normal	Not Existed		
	B. II.I	Mazar shareef	Mazare shareef	Dormancy				
	Balkh	Nahrishahi	Nahrishahi	Planting	Normal	Not Existed		
		Dawlat Abad	Dawlat Abad	Emergence	Normal	Not Existed		
		Sheberghan	Sheberghan	Emergence	Normal	Not Existed		
	Jawzjan	Darzab	Darzab	Dormancy				
		Aqcha	Aqcha	Emergence	Normal	Not Existed		
North	Saripul	Saripul	Saripul	Emergence	Normal	Shortage of Input		
North		Sancharak	Sancharak	— Dormancy				
		Sozmaqala	Sozmaqala	Dormancy				
	Faryab	Maimana	Maimana	Planting	Normal	Not Existed		
		Andkhoy	Andkhoy	Planting	Normal	Not Existed		
		Garzeewan	Garzeewan	Dormancy				
	Samangan	Aibak	Aibak	Planting	Normal	Not Existed		
		Dara Souf	Dara Souf	Planting	Normal	Not Existed		
		Sar bagh	Sarbagh					
	Dodahis	Maqur	Maqur	Dormancy				
	Badghis	Qalainow	Qalainow					
	Ghor	Chaghcharan	Chaghcharan	Emergence	Normal	Not Existed		
	Giloi	Dawlat yar	Dawlat yar	Emergence	Normal	Not Existed		
North West		Shindand	Shindand	Emergence	Normal	Not Existed		
	Hirat	Hirat	Hirat	Emergence	Normal	Not Existed		
		Zindajan	Zindajan	Emergence	Normal	Not Existed		
		Gwazara	Falahat	Emergence	Normal	Not Existed		
		Hirat	Farm Urdokhan	Emergence	Normal	Not Existed		
	Farah	Farah	Farah	Emergence	Normal	Not Existed		

Wheat Crop Stage, Condition and Adverse Factor Maps



Data Source: Agromet Network

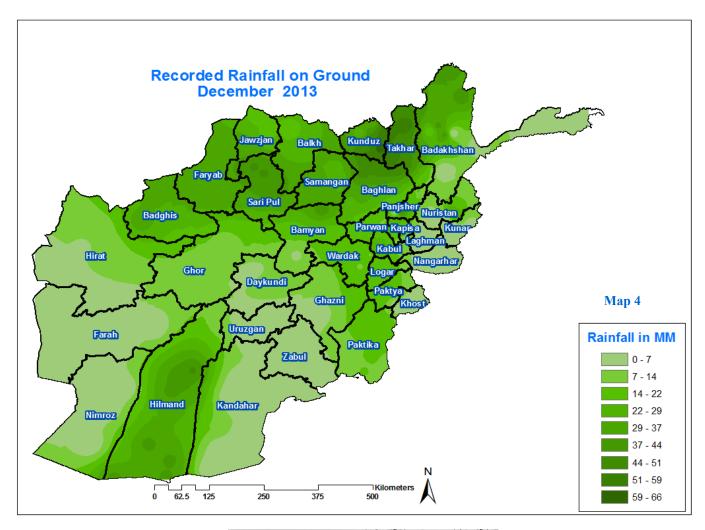
Precipitation

Comparison of Monthly rainfall data for the month of December 2013, in contrast to the same month of December 2012, show significant decrease of rainfall in most of the areas aside from some areas of Northern region during the month of December 2013, compare to the same month of last year.

Comparison of Monthly rainfall data for the month of December 2013 in contrast to the same month of Long Term Average, show decrease of rainfall

aside from North and North eastern regions during the month of December 2013 compare to the same month of Long Term Average.

Fairly widespread rainfall occurred during the month of the December 2013, as Map (4) Shows the distribution of rainfall during the month of December 2013, in entire country the highest rainfall has occurred in Khan Abad district of Kunduz province which was 66.7 mm.





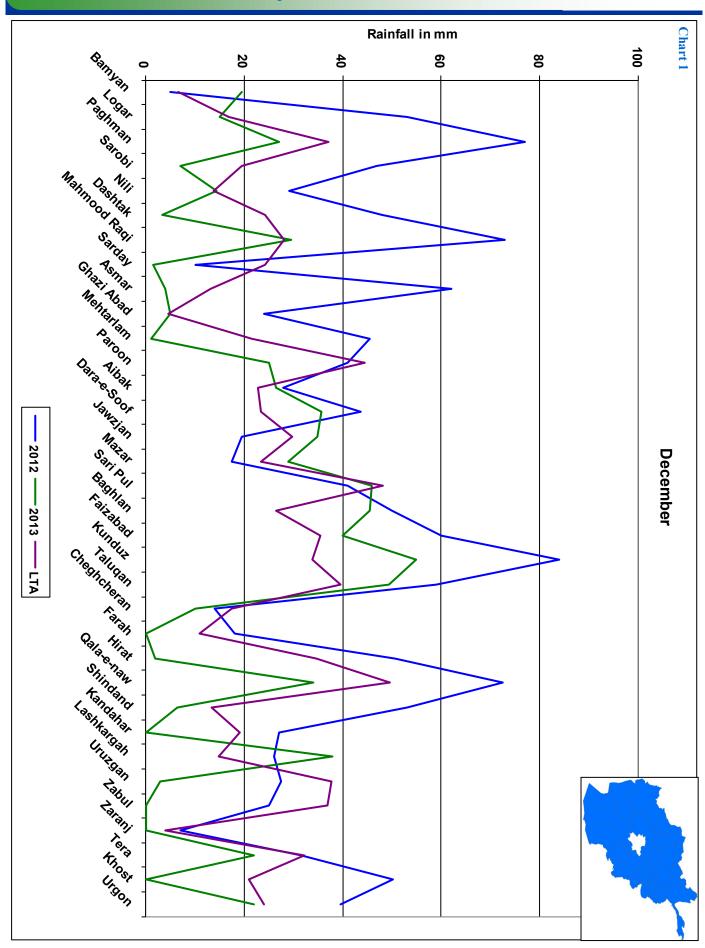
Precipitation

Normally during the month of December 2013, the expectation for more rainfall is high, but unfortunately we did not experienced widespread rainfall in the entire country during this month. As table 1 shows, during the month of December 2013 in central part to the country Bamyan has received 19.5 mm, Logar 15 mm, Paghman 27 mm, Sarobi 7mm, Nili 14.5mm, Dashtak 3.3mm and Mahmood Ragi 29.2mm of rainfall .The highest rainfall has been recorded in Mahmood Raqi center of Kapisa province which is 29.5 mm. In Eastern region Asmar has received 4 mm, Ghazi Abad 5mm, Mehtarlam 1mm, and Paroon 25 mm, and the highest rainfall in this regain has been recorded in Paroon center of Nuristan province which is 25 mm. In Northern region Aibak has received 26.5 mm, Dara-e-Soof 35.7 mm, Jawzan 34.8 mm, Mazar 29 mm, and Sari Pul 46 mm, the highest rainfall in this regain has been recorded in Sari Pul province which is 46 mm.In North Eastern region Baghlan has received 45.6 mm, Faizabad 40 mm, Taluqan 49.5 mm, and Kunduz 55 mm, the highest rainfall in the north eastern region has been recorded in Kunudz province which is 55 mm.

In Southern region Kandahar has received 0 mm, Lashkargah 38 mm, Uruzgan 3mm, Zabul 0 mm, and Zaranj 0 mm, the highest rainfall in this region has been recorded in Lashkargah district of Hilmand province which is 38 mm. In South Eastern region Tera has received 22 mm, Khost 0 mm, and Urgon 22 mm. In western region Farah has received 0 mm, Hirat 2 mm, Qala-e-Now 34 mm and Shindand 6.5 mm the highest rainfall in the respected region have been recorded in Qala-e-Now Center of Badghis province which is 34 mm.

In conclusion we can say that, rainfall has two extremes the high extreme has occurred in Kunduz province which is 55 mm in the month of December 2013, and the lowest extreme has occurred in Mehtarlam center of Laghman province which is 1 mm in the month of December 2013. For more information regarding the rainfall for the month of December 2013 please, refer to the below table.

Station Name	December			Deviation	Comparison	Prediction Table 3		
Station Name	2012	2013	LTA	Deviation	Comparison	Prediction		
Bamyan	4.9	19.5	6.7	12.8	Above Normal	No Dryness		
Nili	29.2	14.5	13.8	0.7	Above Normal	No Dryness		
Dashtak	48	3.3	24.2	-20.9	Bellow Normal	Dryness		
Logar	53	15	16.8	-1.8	Bellow Normal	Dryness		
Paghman	77	27	37.1	-10.1	Bellow Normal	Dryness		
Sarobi	47	7	19.6	-12.6	Bellow Normal	Dryness		
Mahmood Raqi	73	29.5	28.2	1.3	Above Normal	No Dryness		
Rainfall decrease in 2013 with respect to LTA								
Asmar	62	4	13.1	-9.1	Bellow Normal	Dryness		
Ghazi Abad	24	5	4.6	0.4	Above Normal	No Dryness		
Mehterlam	45.6	1	21.5	-20.5	Bellow Normal	Dryness		
Paroon	41	25	44.5	-19.5	Bellow Normal	Dryness		
Baghlan	50	45.6	26.5	19.1	Above Normal	No Dryness		
Faizabad	60	40	35.5	4.5	Above Normal	No Dryness		
Kunduz	84	55	33.8	21.5	Bellow Normal	Dryness		
Sta	tions Like	Ghazi Aba	d, Baghlan,	and Faiz Abad	are non dry in compar			
Taluqan	59	49.5	39.5	10	Above Normal	No Dryness		
Aibak	28	26.5	22.8	3.7	Above Normal	No Dryness		
Dara-e-soof	43.6	35.7	23.5	12.2	Above Normal	No Dryness		
Jawzjan	19.6	34.8	29.7	5.1	Above Normal	No Dryness		
Mazar	17.5	29	23.5	5.5	Above Normal	No Dryness		
Sari Pul	41	46	48.2	-2.2	Bellow Normal	No Dryness		
Kandahar	27	0	19.2	-19.2	Bellow Normal	Dryness		
Lashkargah	26	38	14.8	23.2	Above Normal	No Dryness		
Uruzgan	27.5	3	37.8	-34.8	Bellow Normal	Dryness		
•	Station	ns like Sari	Pul, Kahnda	har and uruzg	an are dry with respect	to LTA		
Zaranj	7	0	4	-4	Bellow Normal	Dryness		
Tera	31.5	22	32.2	-10.2	Bellow Normal	Dryness		
Zabul	25	0	36.9	-36.9	Bellow Normal	Dryness		
Khost	50.2	0	21	-21	Bellow Normal	Dryness		
Sarady	10	1.5	24.2	-22.7	Bellow Normal	Dryness		
Urgon	39.5	22	24.1	-2.1	Bellow Normal	Dryness		
Cheghcheran	14	10	17.4	-7.4	Bellow Normal	Dryness		
Farah	18	0	10.9	-10.9	Bellow Normal	Dryness		
Hirat	50.6	2	34.6	-32.6	Bellow Normal	Dryness		
Qala-e-naw	72.5	34	49.7	-15.7	Bellow Normal	Dryness		
Shindand	53	6.5	13.3	-6.8	Bellow Normal	Dryness		
Rainfall decrease in 2013 with respect to LTA								

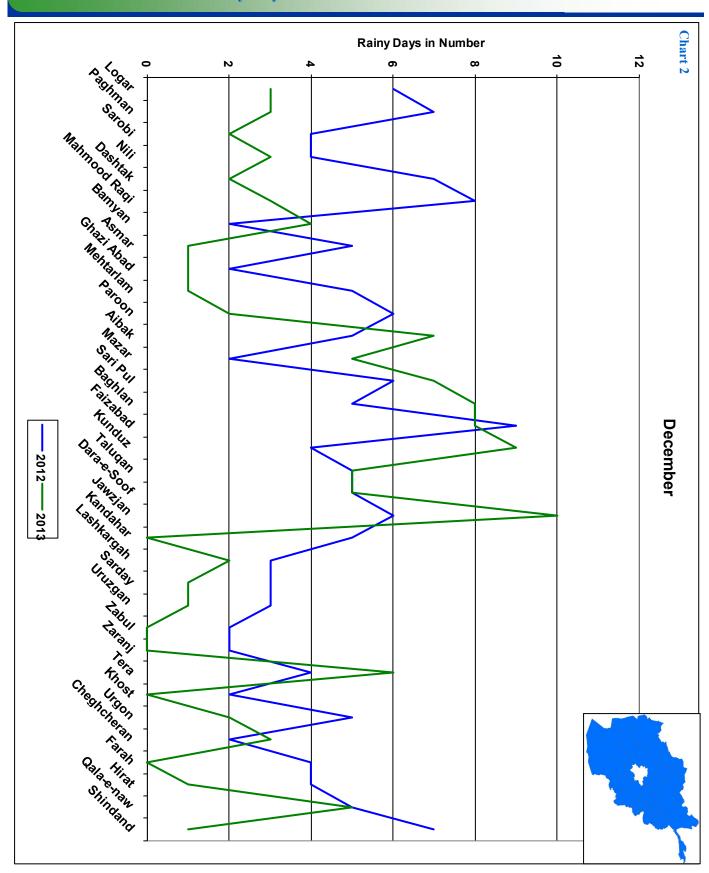


Rainy Days

Aibak, Mazar, Sari Pul, Baghlan, Kunudz, Jawzjan, Tera and Cheghcheran are having the highest number of rainy days during the month of December 2013, compared to the same month in 2012. The areas such as, Logar, Paghman, Sarubi, Nili, Dashtak, Mahmood Raqi, Asmar, Ghazi Abad, Mehtarlam, Paroon, Faizabad, Kandahar,

Based on the bellow table, the areas of Bamyan, Lashkarghah, Sarday, Uruzgan, Zabul, Zaranj, Khost, Urgon, Farah, Hirat and Shindand are the areas with the least number of rainy days in December 2013, in comparison to the same month of 2012. The areas such as Taluqan, Dara-e- Soof and Qala-e- Naw are the areas that had equal rainy days in comparison to the same month of last year.

		Dec	ember	Table 2	
No	Station Name	Rainy Days		Comparison Prediction with respect to (2012)	
		2012	2013	(=)	
1	Dashtak	7	2	Dryness	
2	Logar	6	3	Dryness	
3	Paghman	7	3	Dryness	
4	Sarobi	4	2	Dryness	
5	Bamyan	2	4	No Dryness	
6	Mahmood Raqi	8	3	Dryness	
7	Nili	4	3	Dryness	
8	Ghaziabad	2	1	Dryness	
9	Asmar	5	1	Dryness	
10	Mehterlam	5	1	Dryness	
11	Paroon	6	2	Dryness	
12	Aibak	5	7	No Dryness	
13	Mazar	2	5	No Dryness	
14	Saripul	6	7	No Dryness	
15	Baghlan	5	8	No Dryness	
16	Faizabad	9	8	Dryness	
17	Kunduz	4	9	No Dryness	
18	Taluqan	5	5	No Change	
19	Dara-e-soof	5	5	No Change	
20	Jawzjan	6	10	No Dryness	
21	Zabul	2	0	Dryness	
22	Kandahar	5	0	Dryness	
23	Lashkargah	3	2	Dryness	
24	Sarday	3	1	Dryness	
25	Uruzgan	3	1	Dryness	
26	Zaranj	2	0	Dryness	
27	Tera	4	6	No Dryness	
28	Khost	2	0	Dryness	
29	Urgon	5	2	Dryness	
30	Cheghcheran	2	3	No Dryness	
31	Farah	4	0	Dryness	
32	Hirat	4	1	Dryness	
33	Qala-e-naw	5	5	No Change	
34	Shindand	7	1	Dryness	



Comparison of rainy days for the month of December 2013, with the same month of last year (Chart 2) shows variable situation, in most parts of the country

it shows decrease of rainy days, while in some parts of the country it shows increase of rainy days.

MODIS 8-day Snow Cover Extent Current Period vs. Previous Year Uzbekistan Tajikistan Dec 19 - Dec 26, 2013 China Turkmenistan 36°N Snow Irrigated Areas Clouds Obscured Non-Snow Province Boundary --- International Boundar 32°1 Pakistan Iran 30° N Map 5 Uzbekistan Dec 18 - Dec 25, 2012 China Turkmenistan Irrigated Areas Clouds Obscured Non-Snow Province Boundary --- International Boundar Pakistan Iran Map 6 68°E 70°E **ZUSGS ZUSAID ⊘HWSNET**

(December 19 – December 26) 2013 with the same period of time over the same period of time in 2012. period in 2012 (Map 5 - 6) shows significant

Map created by USGS/EROS

Comparison of snow extent for the period of decrease in snow extent during the above mentioned

Data Source: USGS 10

MODIS 8-day Snow Cover Extent Current Period vs. Monthly Average (2001-2012) Uzbekistan Tajikistan Dec 19 - Dec 26, 2013 China Turkmenistan 36°N Snow Irrigated Areas Clouds Obscured Non-Snow Province Boundary --- International Boundar 32°N Pakistan Map 7 Uzbekistan Tajikistan December China Turkmenistan Irrigated Areas Clouds Obscured Non-Snow Province Boundary --- International Boundar Pakistan Iran Map 8 68°E 70°E

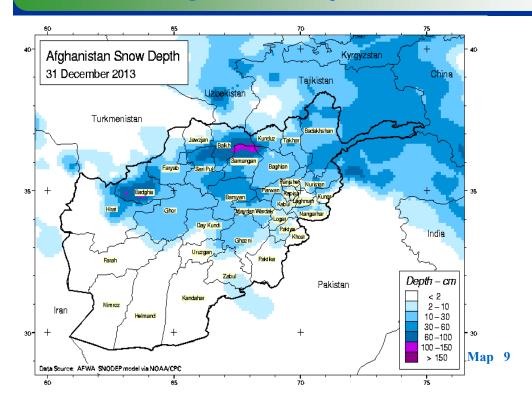
Comparison of snow extent for the month of extent during the month of December 2013, over the December 2013, with the same month of long term same month of long term average. average (Map 7-8) shows small decrease in snow

Map created by USGS/EROS

MUSGS DUSAID GEWINET

Data Source: USGS 11

Afghanistan Snow Depth for month of December 2013



East, North West, Central and South East regions snow is visible. Map (15) shows snow depth for the end of December 2013.

In most parts of the country such as North, North As map (9) shows the snow depth has been recorded from 10 to 30 cm in most parts, from 60 to 100 in some parts and from 100 to 150 in less parts of the country.



Data Source: USGS 12

For more information please contact:								
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